

# New York State Department of Transportation

## Yellow Flag NB2228W018

By: Ben Colangelo

Flag Date: March 29, 2022

Superseding Information:

This flag supersedes: YF NB2122W024

### Structure Information

*BIN:* 1065318

*Feature Carried:* 278I278IX2M23027

*Feature Crossed:* 6TH AVENUE

*Orientation:* 8 - NORTHWEST

*Region:* 11 - NEW YORK CITY

*County:* KINGS

*Political Unit:* City of NEW YORK

*Approximate Year Built:* 1962

*Posted Load Matches Inventory :* Yes

*Bridge Load Posting (Tons) :* Not Posted for Load

*Primary Owner:* New York State Department of Transportation

*Primary Maintenance Responsibility:* 12 - State - Subcontracted to another Party

*Typical or Main Span Type:* 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

*Number of Spans:* 322

### Verbal Notification Information

*Person Notified:* Heinz Joachim, P.E.

*Date:* March 29, 2022 10:00:00 AM

*Of:* NYSDOT Region 11

### Signature Information

*Signature:* Ben Colangelo, P.E. 068498

*Date:* May 25, 2022

*Reviewed By:* Robert Kemp

*Date:* May 25, 2022

*Attachments:* 5

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 201</b>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

### Flagged Condition Description

Yellow Flag No. NB2228W018

Location: Span 201, Girder G19 at Pier 200.

Description: The right clip/connection angle of Girder G19 connection to the end face of the pier cap at Pier 200 exhibits a 3" long vertical crack x 3/4" wide at the lower fillet section (deterioration induced cracking). The remaining section of the clip/connection angle has heavy corrosion with up to 3/16" section loss.

There has been no significant change since the previous inspection.

This Yellow Flag No. NB2228W018 is superseding Yellow Flag No. NB2122W024.

Notes:

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.27 inches and thickness of 0.608 inches and is located into the roadway, approximately 12" off the edge of the curb line/safety walk above.
2. The left stiffener/connection angle for Girder G19 to Pier 200 is not severely deteriorated and does not have deterioration induced cracking.
3. There is a 1" dia. hole at the top cope of Girder G19, and the right-side web of Girder G19 exhibits up to 1/4" section loss for the full height.
4. The adjacent Girder (left) G18, with a spacing of 5'-3" on center, has web repair plates and is in fair condition.
5. The adjacent Stringer (right) S2, with a spacing of 2'-0" on center, acts as a support for the railing and curb area above and has a bottom flange, left angle with knife edge corrosion and up to 80% section loss over an 18" long x 2" wide section.
6. A double left lane closure on 3rd Avenue Eastbound with shadow vehicle and a 35' bucket truck are required to access the flagged location.

**Flag Photographs**

Photo Number: 1

Photo Filename: **IMG\_9804.JPG**

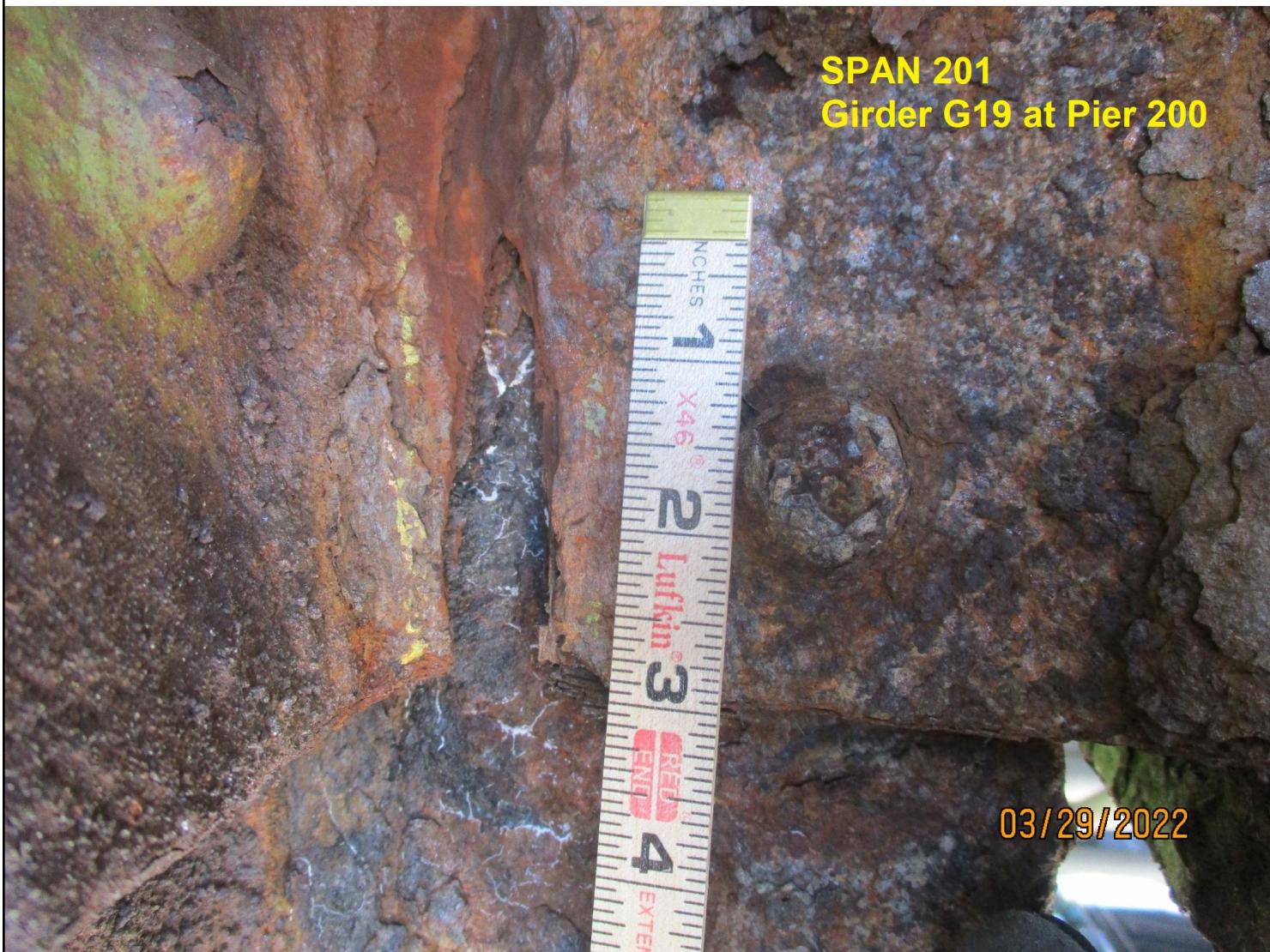
**Attachment Description:** Span 201, Girder G19 at Pier 200. General view of the flagged location. Looking Begin.

Photo Number: 2

Photo Filename: **IMG\_9789.JPG**

**Attachment Description:** Span 201 Girder G19 at Pier 200. General view of the flagged location showing severe corrosion and cracking in the right connection angle of the girder to the pier cap. Looking Left.

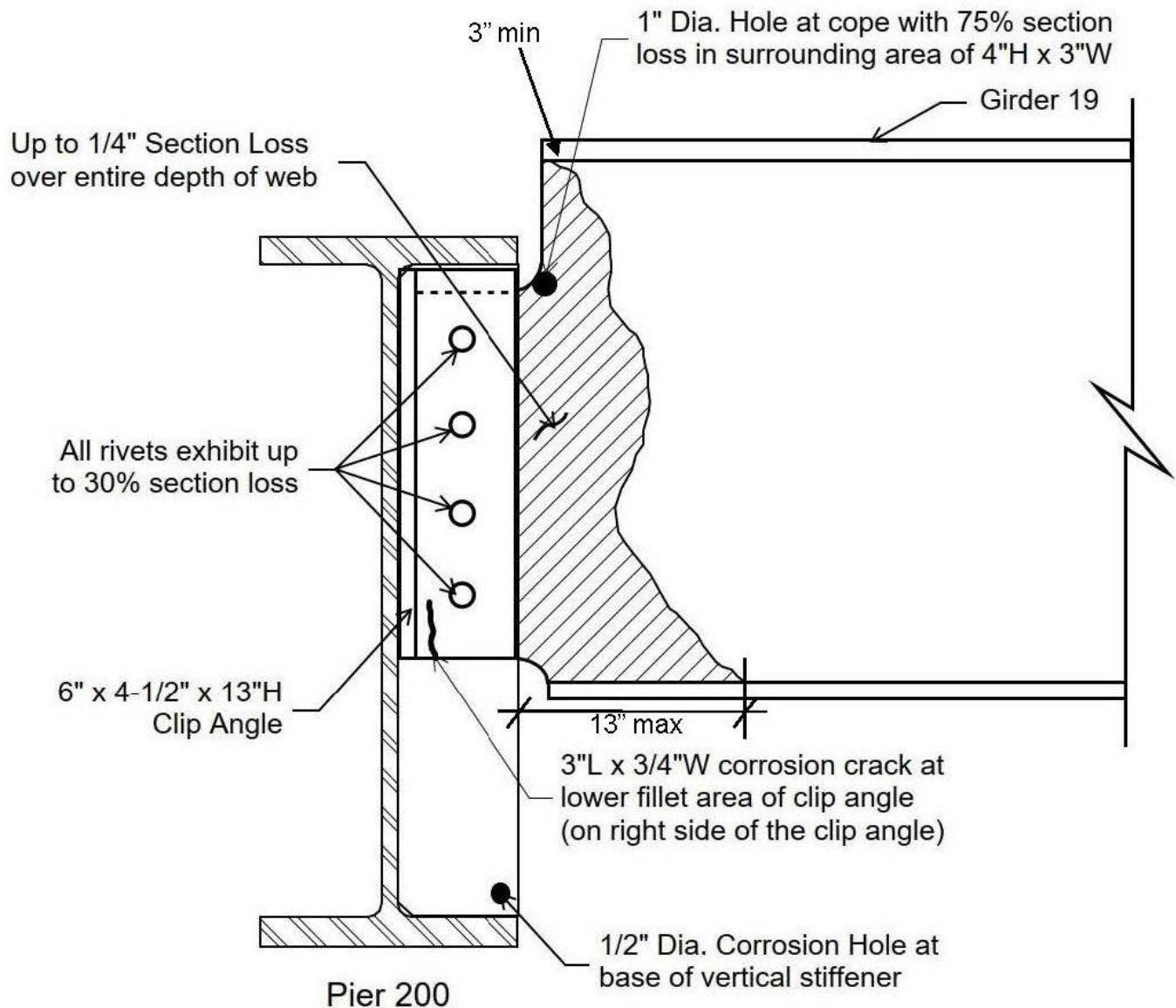
Photo Number: 3

Photo Filename: **IMG\_9786.JPG**

**Attachment Description:** Span 201 Girder G19 at Pier 200. Close-up view of the flagged location showing severe corrosion and cracking in the right connection angle of the girder to the pier cap. Looking Left.

Photo Number: 4

Photo Filename: YFNB22~1.JPG



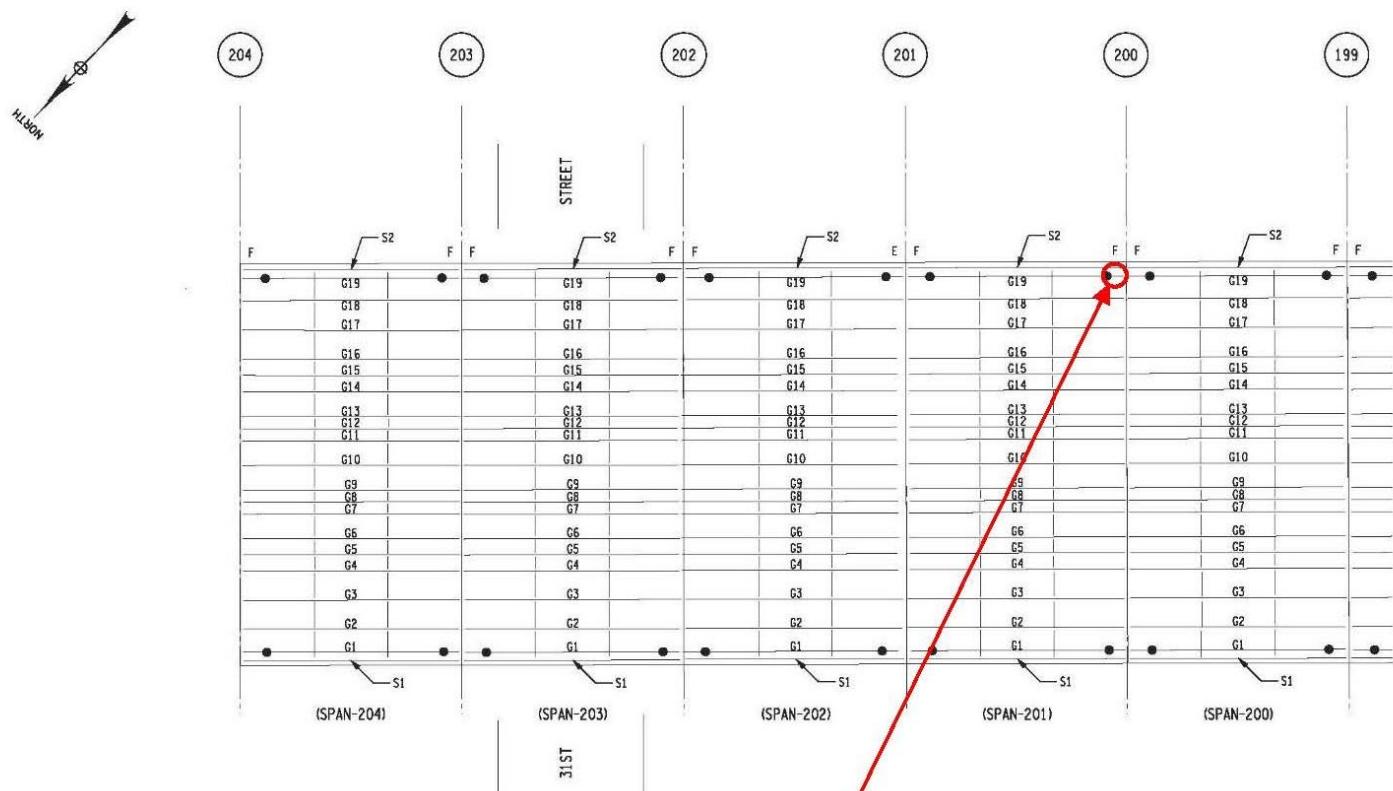
**SPAN 201, GIRDER G19 BEAM END AT PIER 200**  
**(LOOKING LEFT)**

**N.T.S**

***Attachment Description: SN 201 G19 at Pier 200 Sketch***

Photo Number: 5

Photo Filename: SN201\_G19\_Framing Plan - 2022.jpg



**YELLOW FLAG  
LOCATION**

**No. NB2228W018**

LEGEND:

- E - Expansion Bearing Element PR311
- F - Fixed Connection
- G - Girder Element 107
- S - Stringer Element 113
- End of partial length cover plate. Category E' requires 100% Hands on Inspection.

**Attachment Description: SN 201 G19 at Pier 200 Framing Plan**